Introduction to Special Issue on Networks and Computation
Jerrold Griggs and Michael Tortorella 137
Published online 25 January 2005

On Labeling the Vertices of Products of Complete Graphs with Distance Constraints
D.J. Erwin, J.P. Georges, and D.W. Mauro 138
Published online 1 April 2003

A Generalization of the Weighted Set Covering Problem
Jian Yang and Joseph Y-T. Leung 142
Published online 16 May 2003

Quantifying Optimal Mesh and Ring Design Costs
Thomas Stidsen and Arne John Glenstrup 150
Published online 25 August 2004

Graph Distance-Dependent Labeling Related to Code Assignment in Computer Networks
Xiaohua Teresa Jin and Roger K. Yeh 159
Published online 29 September 2004

A Multi-Objective Model for Bank ATM Networks
M.A. Hinojosa, A.M. Mármol, and L.C. Thomas 165
Published online 12 November 2004

Optimal Power Control in a Wireless Network Using a Model with Stochastic Link Coefficients
T. Heikkinen and A. Prékopa 178
Published online 6 December 2004

Issue 3, April 2005

The Continuous-Time Single-Sourcing Problem with Capacity Expansion Opportunities
Wei Huang, H. Edwin Romeijn, and Joseph Geunes 193
Published online 26 January 2005

Reliability of Linear Multistate Multiple Sliding Window Systems
Gregory Levitin 212
Published online 26 January 2005

Stochastic Modeling for Computational Warranty Analysis
M.A. Wortman and Debra A. Elkins 224
Published online 27 January 2005

On the Asymptotic Optimality of Algorithms for the Flow Shop Problem with Release Dates
Hui Liu, Maurice Queyranne, and David Simchi-Levi 232
Published online 26 January 2005

Evaluating Methods for the Reliability of a Large 2-Dimensional Rectangular k-within-consecutive-(r, s)-out-of-(m, n):F System
Hisashi Yamamoto and Tomoaki Akiba 243
Published online 3 February 2005

Shock Model in Markovian Environment
Gang Li and Jiaowan Luo 253
Published online 3 February 2005

Scheduling and Lot Streaming in Two-Machine Open Shops with No-Wait in Process
Nicholas G. Hall, Gilbert Laporte, Esaignani Selvarajah, and Chelliah Sriskandarajah 261
Published online 3 February 2005

A Model To Predict the Residual Life of Aircraft Engines Based upon Oil Analysis Data
Wenbin Wang and Wenjuan Zhang 276
Published online 11 February 2005

Random Disambiguation Paths for Traversing a Mapped Hazard Field
Carey E. Priebe, Donniell E. Fishkind, Lowell Abrams, and Christine D. Piatko 285
Published online 14 February 2005

Issue 4, June 2005

Algorithms for Solving the Conditional Covering Problem on Paths
Brian J. Lunday, J. Cole Smith, and Jeffrey B. Goldberg 293
Published online 4 March 2005

Manpower Allocation with Time Windows and Job-Teaming Constraints
Yanzhi Li, Andrew Lim, and Brian Rodrigues 302
Published online 7 March 2005

A Logistics Scheduling Model: Inventory Cost Reduction by Batching
Xiangtong Qi 312
Published online 7 March 2005

A Decomposition Algorithm Applied to Planning the Interdiction of Stochastic Networks
Harald Held, Raymond Hemmecke, and David L. Woodruff 321
Published online 7 March 2005

A Continuous-Time Strategic Capacity Planning Model
Woonghee Tim Huh and Robin O. Roundy 329
Published online 15 March 2005

Discrete Stochastic Optimization Using Variants of the Stochastic Ruler Method
Mahmoud H. Alrefaei and Sigrún Andradóttir 344
Published online 22 March 2005

Single Machine Scheduling with a Restricted Rate-Modifying Activity
Yong He, Min Ji, and T. C. E. Cheng 361
Published online 22 March 2005

On the Median Residual Lifetime and Its Aging Properties: A Characterization Theorem and Applications
Rosa E. Lillo 370
Published online 23 March 2005

Issue 5, August 2005

Outsourcing Warranty Repairs: Dynamic Allocation
Michelle Opp, Kevin Glazebrook, and Vidyadhar G. Kulkarni 381
Published online 4 April 2005

Approximation of Multiclass Queueing Networks with Highly Variable Arrivals under Deterministic Routing
Sunkyo Kim 399
Published online 13 April 2005

On Parallel Machine Replacement Problems with General Replacement Cost Functions and Stochastic Deterioration
Suzanne Childress and Pablo Durango-Cohen 409
Published online 28 April 2005

Disruption Management in Production Planning
Jian Yang, Xiangtong Qi, and Gang Yu 420
Published online 20 April 2005

A Concave-Cost Production Planning Problem with Remanufacturing Options
Jian Yang, Boaz Golany, and Gang Yu 443
Published online 28 April 2005

Robust Capacity Planning in Semiconductor Manufacturing
Francisco Barahona, Stuart Bermon, Oktay Günlük, and Sarah Hood 459
Published online 5 May 2005

Approximating Nondominated Sets in Continuous Multiobjective Optimization Problems
Jacinto Martín, Concha Bielza, and David Ríos Insua 469
Published online 9 May 2005

Issue 6, September 2005

Project Scheduling under Competition
Igor Averbakh and Vasilij Lebedev 481
Published online 8 June 2005

Coordinated Scheduling of Customer Orders for Quick Response
Reza Ahmadi, Uttarayan Bagchi, and Thomas A. Roemer 493
Published online 13 June 2005

A Dynamic Allocation Heuristic for Centralized Safety Stock
De-bi Cao and Edward A. Silver 513
Published online 13 June 2005

Basic Scheduling Problems with Raw Material Constraints
Alexander Grigoriev, Martijn Holthuijsen, and Joris van de Klundert 527
Published online 16 June 2005

An Economic Lot-Sizing Problem with Perishable Inventory and Economies of Scale Costs: Approximation Solutions and Worst Case Analysis
Leon Yang Chu, Vernon Ning Hsu, and Zuo-Jun Max Shen 536
Published online 16 June 2005

Facility Location for an Extraterrestrial Production/Distribution System
Thomas L. M^{c}Kendree and Randolph Hall 549
Published online 20 June 2005

Modeling Multiple Stage Manufacturing Systems with Generalized Costs and Capacity Issues
N.C. Simpson and S. Selcuk Erenguc 560
Published online 14 July 2005

Scheduling a Production–Distribution System To Optimize the Tradeoff between Delivery Tardiness and Distribution Cost
Guruprasad Pundoor and Zhi-Long Chen 571
Published online 11 July 2005

An Approximate Planning Model for Distributed Computing Networks
John S. Hollywood 590
Published online 12 July 2005

Issue 7, October 2005

Properties of the Geometric and Related Processes
W. John Braun, Wei Li, and Yiqiang Q. Zhao 607
Published online 14 July 2005

Machine Scheduling with Pickup and Delivery
Chung-Lun Li and Jinwen Ou 617
Published online 14 July 2005

Non-Greedy Heuristics and Augmented Neural Networks for the Open-Shop Scheduling Problem
Selcuk Colak and Anurag Agarwal 631
Published online 25 July 2005

Quantity Discount Pricing Policies for Heterogeneous Retailers with Price Sensitive Demand
Qinan Wang and Ruifang Wang 645
Published online 11 August 2005

Capacity Allocation with Machine Duplication in Semiconductor Manufacturing
Bülent Çatay, Ş. Selçuk Erengüç, and Asoo J. Vakharia 659
Published online 17 August 2005

Optimal Joint Preventive Maintenance and Production Policies
Xiaodong Yao, Xiaolan Xie, Michael C. Fu, and Steven I. Marcus 668
Published online 22 August 2005

Approximations and Empirics for Stochastic War Equations
Kjell Hausken and John F. Moxnes 682
Published online 25 August 2005

Issue 8, December 2005

Distribution Network Design: Selection and Sizing of Congested Connections
Simin Huang, Rajan Batta, and Rakesh Nagi 701
Published online 1 September 2005

Allocation of Resources of Modular Sizes with an Application to Internet Protocol (IP) Address Allocation
Hanan Luss 713
Published online 14 September 2005

Transshipment through Crossdocks with Inventory and Time Windows
Andrew Lim, Zhaowei Miao, Brian Rodrigues, and Zhou Xu 724
Published online 19 September 2005

Markets for Surplus Components with a Strategic Supplier
Lingxiu Dong and Erik Durbin 734
Published online 29 September 2005

Short-Term Capacity Allocation Probem with Tool and Setup Constraints
Elif Akçai, Alper Üngör, and Reha Uzsoy 754
Published online 29 September 2005

On the Effectiveness of Returns Policies in the Price-Dependent Newsvendor Model
Daniel Granot and Shuya Yin 765
Published online 6 October 2005

Commitment Decisions with Partial Information Updating
Mark E. Ferguson, Gregory A. DeCroix, and Paul H. Zipkin 780
Published online 13 October 2005

Production and Transport Logistics Scheduling with Two Transport Mode Choices
Haiyan Wang and Chung-Yee Lee 796
Published online 13 October 2005

Appreciation to Referees 810

Author Index I

Volume Contents IV